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comprising an inorganic compound of sheet structure and an organic compound inserted between [the layers of said inorganic compound.]

claim 1

9. A power cable according to ~~any preceding claim~~ wherein [the covering layer] comprises an external covering layer constituted essentially of a material comprising an inorganic compound of sheet structure and an organic compound inserted between [the layers of said inorganic compound.]

10. A medium-voltage to high-voltage direct current power cable according to ~~any of claims 1 to 7~~, wherein [the covering layer] comprises at least one semiconductor screen, characterized in that [the semiconductor screen] is constituted essentially of a material comprising an inorganic compound of sheet structure and an organic compound inserted between the layers of said inorganic compound.

11. A method of fabricating a power cable according to ~~any preceding claim~~, including the production of said material by the following steps:

- treating said inorganic compound with an agent to render it compatible with said organic compound,

- mixing the treated inorganic compound with said organic compound at a temperature higher than the temperature at which said organic compound softens or melts, and

- obtaining said material with said organic compound inserted between the layers of said inorganic compound.

12. A method according to claim 11, wherein said inorganic compound is clay and said compatibilizing agent is chosen from a quaternary ammonium salt, and an oxide of polyethylene and a phosphorus-containing derivative.